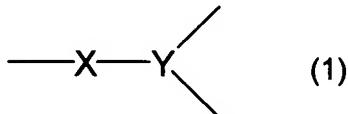


Applicant: Motohiro Yamahara, et al.
Serial No.: Unknown
Filing Date: January 18, 2005

A. Amendments to the claims

1. (currently amended) A dendrimer having a branching structure in which repeating units each having a branch portion are repeatedly linked [through the divergent method or the convergent method], each of said repeating units having a structure represented by formula (1), and containing a linear portion X formed of an optionally substituted divalent organic group and a branch portion Y formed of an optionally substituted trivalent organic group:



characterized in that the linear portion X contains at least one thienylene moiety and is at least partially conjugated with the branch portion Y, and the repeating units are repeatedly linked through the divergent method or the convergent method.

2. (original) A dendrimer according to claim 1, wherein the portion X included in the repeating unit and serving as a starting point of the branching structure is further bonded to a center moiety serving as a core.

3. (original) A dendrimer according to claim 2, wherein the core is a group having a valence of at least two to which at least two of the repeating unit can be directly bonded.

4. (currently amended) A dendrimer according to [any one of claims 1 to 3] claim 1, wherein the portion Y included in the repeating unit and serving as an end of the branching structure is bonded to end moieties which are different from the repeating unit.

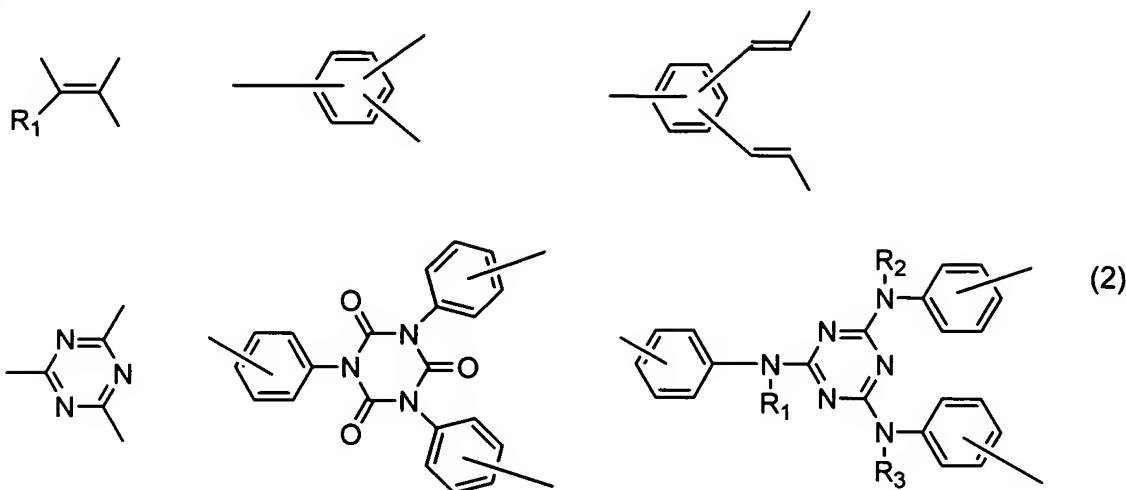
5. (currently amended) A dendrimer according to [any one of claims 1 to 4] claim 1, wherein the branch portion Y includes, as a branching center, a chemical entity selected from among chain hydrocarbons (aliphatic hydrocarbons), cyclic hydrocarbons (including alicyclic compounds and aromatic compounds), and heterocyclic compounds (including aromatic heterocyclic compounds and non-aromatic heterocyclic compounds).

6. (original) A dendrimer according to claim 5, wherein the branch portion Y is selected from among the moieties represented by formula (2):

Applicant: Motohiro Yamahara, et al.

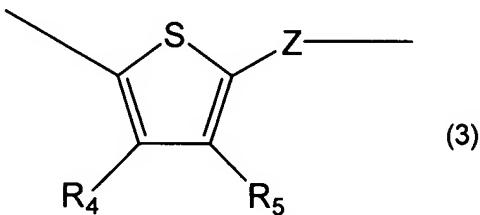
Serial No.: Unknown

Filing Date: January 18, 2005



wherein each of R₁, R₂, and R₃ represents a hydrogen atom or an alkyl group.

7. (currently amended) A dendrimer according to [any one of claims 1 to 6] claim 1, wherein the linear portion X is represented by formula (3), and is at least partially conjugated with the branch portion Y:



wherein Z represents a single bond or an optionally substituted divalent organic group which is at least partially conjugated with thienylene; and each of R₄ and R₅ is selected from hydrogen, an alkyl group, and an alkoxy group.

8. (original) A dendrimer according to claim 7, wherein the substituent Z is a substituent formed from a moiety selected from the group consisting of substituted or unsubstituted chain hydrocarbon (aliphatic hydrocarbon) moieties, substituted or unsubstituted cyclic hydrocarbon (including alicyclic compound and aromatic compound) moieties, and substituted or unsubstituted heterocyclic compound (including aromatic heterocyclic compound and non-aromatic heterocyclic compound) moieties; a substituent formed from a plurality of same moieties continuously linked together selected from said

Applicant: Motohiro Yamahara, et al.

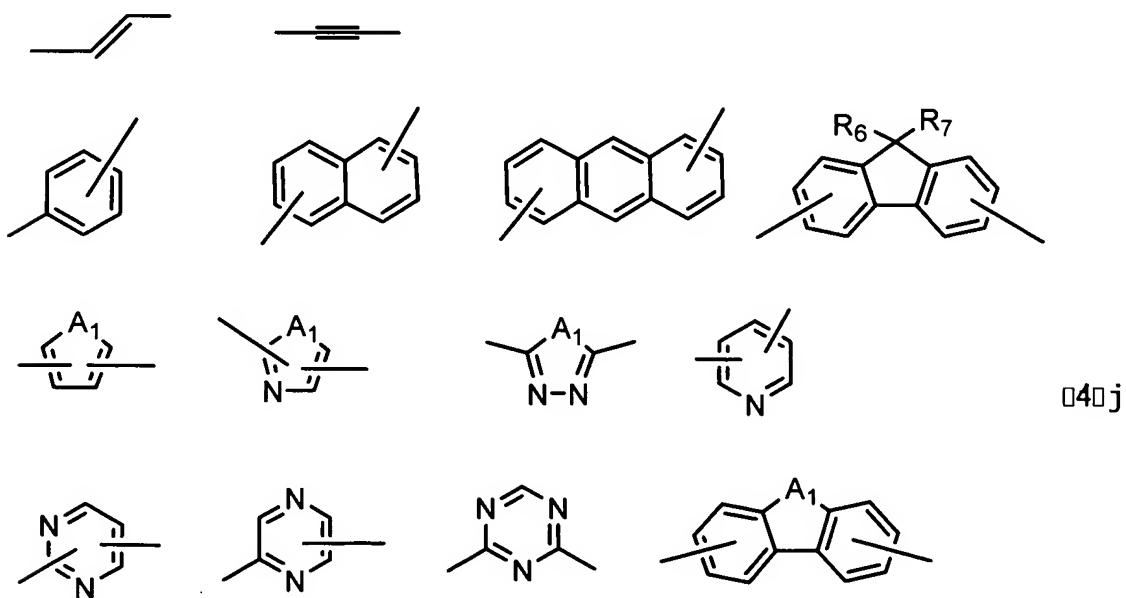
Serial No.: Unknown

Filing Date: January 18, 2005

group; or a substituent formed from a plurality of different moieties continuously linked together selected from said group.

9. (original) A dendrimer according to claim 8, wherein the substituent Z is a substituent formed from a moiety selected from the group consisting of substituted or unsubstituted unsaturated aliphatic hydrocarbon moieties and substituted or unsubstituted cyclic or heterocyclic aromatic compound moieties; a substituent formed from a plurality of same moieties continuously linked together selected from said group; or a substituent formed from a plurality of different moieties continuously linked together selected from said group.

10. (original) A dendrimer according to claim 9, wherein the substituent Z is a substituent formed from a moiety selected from the group represented by formula (4); a substituent formed from a plurality of same moieties continuously linked together selected from said group; or a substituent formed from a plurality of different moieties continuously linked together selected from said group:



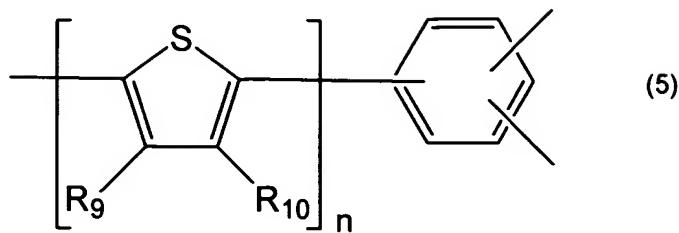
wherein A₁ represents O, S, or N-R₈, and each of R₆, R₇, and R₈ represents a hydrogen atom or an alkyl group.

11. (currently amended) A dendrimer according to [any one of claims 1 to 6] claim 1, wherein the repeating unit is represented by formula (5):

Applicant: Motohiro Yamahara, et al.

Serial No.: Unknown

Filing Date: January 18, 2005



wherein each of R₉ and R₁₀ is selected from hydrogen, an alkyl group, and an alkoxy group, and n represents an integer of 1 to 10.

12. (currently amended) An electronic device element characterized by employing a dendrimer as recited in [any one of claims 1 to 11] claim 1.

13. (original) An electronic device element according to claim 12, which is a charge-transporting device element.

14. (original) An electronic device element according to claim 12, which is a switching transistor element.

15. (original) An electronic device element according to claim 12, which is a light-emitting device element.

16. (original) An electronic device element according to claim 12, which is a photoelectric conversion device element.